

Sri Datta Budaraju

sridatta.ml | github.com/bsridatta

budaraju@kth.se | b.sridatta@gmail.com | linkedin.com/in/sridatta
0905, Forskarbacken 3,114 16 Stockholm, Sweden | +076-965 65 35

EDUCATION

- **KTH Royal Institute of Technology** Stockholm, Sweden
Master of Science in Computer Science; Track: Machine Learning Aug. 2018 - Present
Relevant Courses: Robotics and Autonomous Systems, Speech Technology, Artificial Intelligence, Machine Learning
- **Amrita Vishwa Vidyapeetham** Coimbatore, India
Bachelor of Technology, Computer Science; GPA: 8.69 Aug. 2015 - July 2018
Relevant Courses: Intelligent Systems, Principles of Digital Image Processing, Natural Language Processing, Python
Open Lab, Probability and Random Process, Linear Algebra, Queueing theory and Optimization

CERTIFICATIONS

- **DeepLearning.ai Specialization by Andrew NG:** 5 courses: Neural Networks and Deep Learning, Improving Deep Neural Networks, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models
- **Self-Driving Car Fundamentals by Udacity:** HD Maps, Localization, Perception, Planning, Prediction and Control

EXPERIENCE

- **DataKind - Google.org** Remote
Proposal Reviewer - Google AI's Impact Challenge for Social Good Jan. 2019 - Present
 - **AI Project Review:** Assess the feasibility and scalability of AI based project by companies seeking Google fund
- **KTH Formula Student** Stockholm, Sweden
Lead Perception Engineer - Driverless F1 racing Oct. 2018 - Present
 - **Data Collection and Labelling:** Set up race tracks using color-coded traffic cones and collected training data using Velodyne VLP 16 Lidar and Zed Camera. Annotated images and 3d point cloud for training and validation
 - **Object detection:** Working on squeeze net inspired Deep learning models and point cloud clustering techniques to detect cones and provide real-time object detection for a racing scenario
- **GeeksforGeeks** Coimbatore, India
Campus Ambassador Aug. 2017 - Aug. 2018
 - **Workshops:** Organized hands-on workshops for students and trained around 200 fellow students in Android development. Collaborated with the best of them on an official application for the university.
- **Amrita Multidimensional Data Analysis Lab** Coimbatore, India
Research Assistant - Collaborated with Dr. Vidhya Balasubramanian, Ph.D., UCI March 2017 - March 2018
 - **WiFi Experiments:** Set up an environment with 8 WiFi routers and 8 BLE beacons in the university building and studied the WiFi patterns in complex indoor environments and analyzed the trends in 2.4 and 5GHz.
 - **Localization Algorithms:** Used multi-point triangulation techniques with Weighted Dynamic Circle Expansion to pinpoint the mobile device
 - **Deployment:** Deployed the algorithms using android applications to record IMU sensor data, dual band WIFI and BLE signal readings. Process the collected input to display the estimated pinpoint location on a scaled map

PROGRAMMING SKILLS

- **Languages:** Python, MATLAB, C, Java, PDDL, SQL
- **Libraries:** OpenCV, Keras, TensorFlow, PCL, OpenGL
- **Computing platform:** ROS, Ubuntu, Android, Arduino, Colabs, Firebase, Raspberry Pi, Windows

PROJECTS

- **Accident Anticipation using Deep Learning:** Python, Keras, Google Colabs April 2018 - July 2018
Real-time accident detection in videos using Hierarchical Recurrent Neural Networks with LSTM cells for scene understanding for autonomous vehicles. Trained the Neural Network using hand sampled accident clips from YouTube
- **Safe Rider - Drive Assistant:** Java, Android Studio, Google Maps APIs, Firebase Oct. 2017 - Jan. 2018
Road safety Voice assistant which warns riders of road hazards like potholes in real-time. Detects hazards using onboard IMU sensors and Crowd-Sources the detection to cloud database to alert other riders travelling that path. Won 1st prize in a 24 hours hackathon hosted by Internet and Mobile Association of India
- **Twitter'e'con - Live Sentiment Analysis:** Python, NLTK, Sci-Kit, Tweepy, TKinter Sept. 2017 - Oct. 2017
Sentimental Analysis tool to analyze real-time trends of specific keywords in Twitter feeds. Classified live tweets from twitter API using ensemble modeling and implemented live graphical visualizations
- **Lego Self Exploring Bot:** Lego Mindstorms, Lego NXT May 2017 - May 2017
Object detection and avoidance robot using Lego Mindstorms brick, IR, Supersonic, touch, sound sensors to achieve Course correction, Reaction to and Search for sound sources like claps.

PUBLICATION

- **An Inventive and Innovative alternative for legacy chain pulling system through Internet Of Things-**
Budaraju Sri Datta, Rama Ganapathy, Sini Raj P, Shriram K Vasudevan, Abhishek SN
Indonesian Journal Of Electrical Engineering And Computer Science, 6(3), 688-694. May 2017